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NATIONAL PHOTOGRAPHIC
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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**PROBABLE MINISTRY OF DEFENSE
ASSOCIATED COMMUNICATIONS STATION,
Khabarovsk Area**

USSR

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**MAY 1971
COPY NO 118**

8 PAGES

PIR-023/71

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ABSTRACT

1. This report describes the Sinda HF Communications Facility (48-55-00N 136-20-30E) and the Sarapulskoye HF Communications Facility (48-50-45N 135-55-00E), the probable transmitting and receiving components of a reported Ministry of Defense communications station near Khabarovsk, USSR. Construction activity was still taking place at each facility.

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2. This report includes a description of the existing antennas, of the antennas under construction, and of the buildings associated with each site. It includes annotated photographs, mensural data, antenna azimuths, and probable correspondents.

INTRODUCTION

3. Construction dates, installation size, and antenna azimuths make the Sinda transmitting and Sarapulskoye receiving facilities (Figure 1) the most likely candidates for a reported new Ministry of Defense communications relay station in the Khabarovsk area.^{1,2}

4. The probable correspondents of the antennas at the two sites include Moscow, Dzhambul, Alma-Ata, Blagoveshensk, and Yuzhno-Sakhalinsk, and possibly the Vladivostok and Ussuriysk areas, all areas reportedly active in the net. Additional antenna azimuths indicate correspondents at Chita and Novosibirsk (headquarters of Soviet military districts) as well as at Koryaki and Sovetskaya Gavan (areas of significant Soviet naval communications).

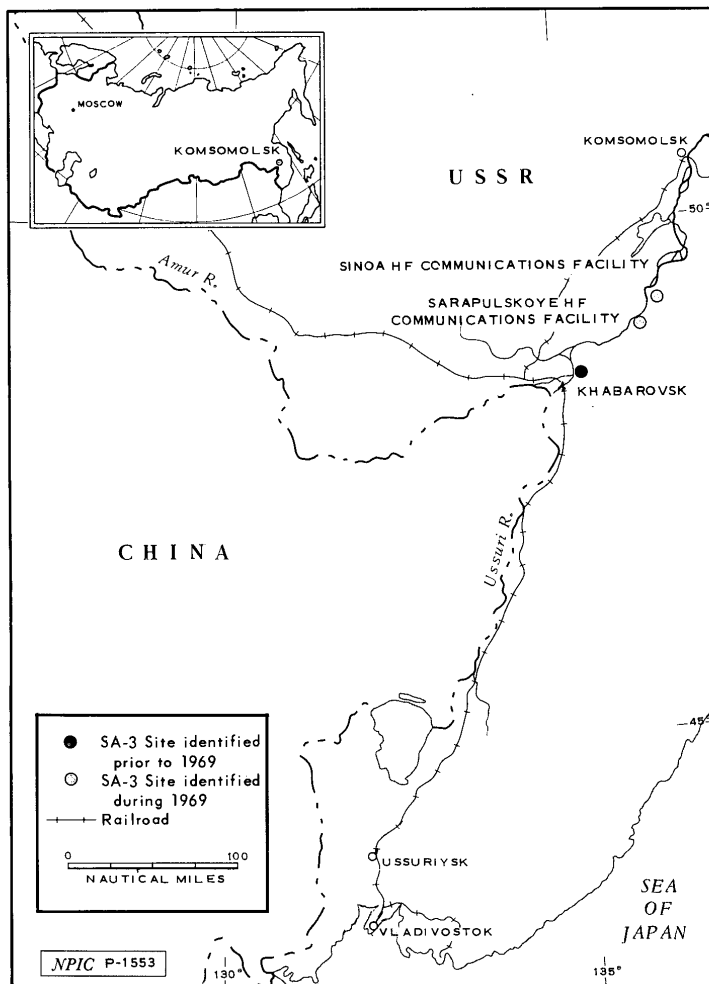


FIGURE 1. LOCATION OF SINDA HF COMMUNICATIONS FACILITY AND SARAPULSKOYE HF COMMUNICATIONS FACILITY

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Table 1. Sinda HF Communications Facility (keyed to Figure 2)

Item	Function
BUILDINGS	
1	Support
2 a	Heating and power plan
b	
c	
3 a	Headquarters/admin
b	
c	
4	Support
5	Transmitter/control
6	Support
7	Support
8	Workers barracks
9 a	Workers barracks
b	
10	Workers barracks
11	Prob workers messhall
12	Support
13 a	Support
b	
14	Bldg ucon
15	Prob messhall
16	Construction material storage
17	Barracks
18	Bldg ucon
19	Support
20	Support
21	Security bldg
22	Tent area (abandoned)
23	Support
24	Support ucon

*May not fall within accuracy statement.

ITEM	PROG CORRESPONDENT	SOVIET DESIGNATOR
ANTE		
A	Vladivostok/Ussuriysk area	--
B	Beringovskiy	--
C	Beringovskiy	--
D	Beringovskiy	--
E	Beringovskiy	--
F	Koryaki	--
G	Vladivostok/Ussuriysk area	--
H	Beringovskiy	--
I	Beringovskiy	--
J	Koryaki	--
K	Korsakov	--
L	Yazhnosakhalinsk	--
M		
N	Korsakov	RGD $\frac{57}{1.7}$ 0.5
O	Vladivostok/Ussuriysk area	RGD $\frac{57}{1.7}$ 0.5
P	Vladivostok/Ussuriysk area	RGD $\frac{57}{1.7}$ 0.5
Q		
R	Blagoveschensk	RGD $\frac{57}{1.7}$ 0.5
S	Chita	RGD $\frac{57}{1.7}$ 0.5
T	Blagoveschensk	RGD $\frac{57}{1.7}$ 0.5
U	Chita	RGD $\frac{70}{6}$ 1.25
V	Alma Ata	RGD $\frac{70}{6}$ 1.25
W	Dzhambul	RGD $\frac{70}{6}$ 1.25
X	Moscow	RGD $\frac{70}{6}$ 1.25
Y		
Z	Vladivostok/Ussuriysk area	--
	Vladivostok/Ussuriysk area	--
	Vladivostok/Ussuriysk area	--
	Vladivostok/Ussuriysk area	--
	Sovetskaya Gavan	RGD $\frac{57}{1.7}$ 0.5

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Table 2. Sarapulskoye HF Communications Facility (keyed to Figure 3)

Item	Function
BUILDINGS	
1	Support
2	Support
3	Prob headquarters/admin
4	Heating and power plant
5	Support
6	Support
7	Receiver/control
8	Prob Messhall
9	Support
10	Ucon
11	Support
12 a	Barracks
b	
13	Support
14	Support
15 a	Support
b	
16	Security bldg
17	Support
18	Prob workers barracks
19 a	Poss Messhall
b	Prob workers barracks
20	Prob workers barracks

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Item	PROB CORRESPONDENT	SOVIET DESIGNATOR
ANTENN		
A	Vladivostok/ Ussuriysk area	
B	Vladivostok/ Ussuriysk area	Unknown
C	Beringovskiy	3SB2 <u>21</u> <u>200</u> 25 8 4.5
D	Koryaki	Unknown
E	Sovetskaya Gavan	VG D <u>15</u> D 11
F	Sovetskaya Gavan	
G	Sovetskaya Gavan	Unknown
H	Yuzhno-Sakhalinsk	Unknown
I	Dzhambul/Alma Ata	3SB2 <u>21</u> <u>200</u> 25 8 4.5
J	Blagoveschensk/ Chita	Unknown
K	Korsakov	Unknown
L	Moscow	3SB2 <u>21</u> <u>200</u> 25 8 4.5
M	Vladivostok/ Ussuriysk area	
N	Vladivostok/ Ussuriysk area	Unknown
O	Beringovskiy	3SB2 <u>21</u> <u>200</u> 25 8 4.5
P	Koryaki	Unknown
Q	Sovetskaya Gavan	Unknown
R	Novosibirsk	Unknown
S	Dzhambul/Alma Ata	3SB2 <u>21</u> <u>200</u> 25 8 4.5
T	Blagoveschensk/ Chita	Unknown
U	Moscow	3SB2 <u>21</u> <u>200</u> 25 8 4.5

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5. The timing of construction activity at the two facilities correlates with the reported date of initial communications traffic in the net, October 1970.^{1,2}

6. The Sinda HF Communications Facility and the Sarapulskoye HF Communications Facility are both about 50 nautical miles (nm) northeast of Khabarovsk, along the Amur River.

7. The Sinda facility is 3.5 nm east of Sinda, USSR, at a ground elevation of approximately 100 feet on flat, marshy terrain. This facility is a communications transmitting site containing 26 rhombic antennas either complete or under construction and an undetermined number of possible rhombic antennas in the very early stages of construction. The Sarapulskoye facility is 13.7 nm WSW of the Sinda facility and 2 nm southeast of Sarapulskoye, USSR. This installation is on similar terrain at a ground elevation of approximately 250 feet. This facility is a communications receiving site containing 19 fishbone antennas, four of which are under construction, and two dipole antennas, one of which was under construction.

BASIC DESCRIPTION

Sinda HF Communications Facility

8. This large HF transmitting facility is partially operational (Figure 2 and Table 1) and contains a central transmitting and control area, a housing/support area, and a large rhombic antenna field.

9. The central transmitter and control area contains a transmitter/control building (item 5), a heating and power plant (item 2), two support buildings (items 1 and 4), and a headquarters/administration building (item 3). A subsurface POL storage area was under construction adjacent to the transmitter control building.

10. The antenna field contains nine completed rhombic antennas (items N, O, P, R, S, T, U, V, and Z), 18 other rhombic antennas in various stages of construction, and clearing activity for an undetermined number of additional probable rhombic antennas.

11. The probable correspondents for the completed rhombic antennas are Moscow, Dzhambul, Alma-Ata, Chita, Blagoveschensk, and the Vladivostok/Ussuriysk area.

12. Possible correspondents for the rhombic antennas under construction are listed in Table 1 and are based on approximate azimuths.

13. Table 1 also lists the Soviet designators and operational frequency ranges of the completed antennas.

14. Aside from the rhombic antennas just described, no other antennas are discernible.

15. The housing/support area is immediately adjacent to the antenna field.

16. This area consists of a barracks building (item 17), a probable messhall (item 15), a security building (item 21), three support buildings (items 19, 20, and 23), two buildings under construction (items 14 and 18), a vehicle storage area, an abandoned tent area (item 22), and a construction material storage building (item 16).

17. Also located in the housing/support area are buildings which are probably utilized by the construction personnel. These are probable workers barracks buildings (items 8, 9, and 10), a probable workers messhall (item 11), and four miscellaneous support buildings (items 6, 7, 12, and 13).

Chronology

18. Excavation activity had just begun when the site was covered in July 1968 [redacted] 25X1
Due to the lack of cloud-free, interpretable photography, the date when the facility was first seen on photography is unknown. However, no activity was noted in the area in November 1967 [redacted] 25X1
[redacted] 25X1

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19. By December 1968 [redacted], clearings for 24 rhombic antennas were present, and construction had begun on the transmitter/control building, the headquarters/administration building, and the housing/support area.

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20. By April 1970 [redacted] the transmitter and control building, the messhall, and the security building were externally complete. The headquarters/administration building and the heating and power plant were in the late stages of construction. Footings for the barracks building and support buildings were in place.

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21. Six of the rhombic antennas were present in September 1970 [redacted] and two more were erected by January 1970 [redacted]

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Sarapulskoye HF Communications Facility

22. This large HF receiving facility is partially operational and consists of a central control area, an antenna field, and a housing/support area.

23. The central control area contains a receiver/control building (Figure 3 and Table 2, item 7), a probable headquarters/administration building (item 3), a heating and power plant (item 4), and four support buildings (items 1, 2, 5, and 6).

24. The antenna field contains six 2-2-2-2-2-2 fishbone antennas, eight 2-2-2 fishbone antennas, and one horizontal dipole. In addition, there are at least five probable fishbone antennas of undetermined configuration and one horizontal dipole antenna under construction.

25. The azimuths and probable correspondents for the antennas already in place are given in Table 2. These antennas duplicate the coverage of the Sinda installation. Estimated azimuths and possible correspondents for the antennas under construction are listed in Table 2.

26. No other antennas are discernible at this facility. However, since construction activity was still taking place, more antennas may be built.

27. The housing/support area is immediately adjacent to the security fencing which was being emplaced around the antenna field. It consists of a barracks building (item 12), a probable messhall (item 8), a security building (item 16), a building under construction (item 10), and three miscellaneous support buildings (items 9, 11, and 17). As at the Sinda facility, there is also what appears to be a temporary construction worker support area consisting of three probable barracks buildings (items 18, 19b, and 20), a possible messhall (item 19a), and three support buildings (items 13, 14, and 15).

Chronology

28. The pace of construction at Sarapulskoye is similar to that at Sinda. Both facilities were first observed in July 1968. In December 1968 [redacted] there were clearings for five fishbone antennas and footings for several of the buildings.

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29. By August 1969 [redacted] eight of the fishbone antennas were either complete or near completion. The receiver and control building, the heating and power plant, and the security building were in the late stages of construction. Footings were in place for the other permanent site buildings.

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30. In August 1970 [redacted] there were six complete 2-2-2-2-2-2 fishbone antennas, and most of the buildings were complete.

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REFERENCES

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MAPS AND CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0204-17, scale 1:200,000

REQUIREMENT

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